

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("20080150891").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/09/12 18:58
L2	2	10/811,310	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 18:59
L3	20	(Berkley near2 Jeffrey) (Kim near2 Seahak) (Hong near2 Sungkwan)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:00
L4	15	brak\$3 with lock\$3 with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) with (cable pulley)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L5	1	("345"/\$).ccls. and (brak \$3 same lock\$3 same (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) same (cable pulley motor))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L6	1	(haptic) and (brak\$3 same lock\$3 same (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) same (cable pulley motor))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L7	38	(haptic) and ((brak\$3 lock \$3) same (shutdown powerdown turnoff ((shut \$4 power\$3 turn\$3) adj (down off))) same (cable pulley motor))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32

L8	2	spidar and pulley and motor and encond\$3 and (cable tension)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L9	8	("7404716").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/09/12 19:32
L10	953	(dc adj motor) and (motor with (brak\$3 lock \$3) with (shutdown shutoff powerdown poweroff ((shut\$4 power \$4 turn\$4 remov\$3) near2 (off down current voltage))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L15	297	("20010002126"   "20020030663"   "20020033795"   "20020054060"   "20020072814"   "20020097223"   "20020109668"   "20020128048"   "20020142701"   "20020177471"   "20030025679"   "20030030619"   "20030038776"   "20040233161"   "3226846"   "3520060"   "3662076"   "3775865"   "3863098"   "3890958"   "3919691"   "4052981"   "4148014"   "4321047"   "4360345"   "4391282"   "4439162"   "4444205"   "4459113"   "4571834"   "4575297"   "4611998"   "4638798"   "4642055"   "4664130"   "4685464"   "4726772"   "4750487"   "4771344"   "4773865"   "4789340"   "4791934"   "4825872"   "4907973"   "5022407"   "5047942"   "5047952"   "5050608"   "5086401"   "5112228"   "5121747"   "5131844"   "5137458"   "5149270"   "5186629"   "5186695"	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/12 19:32

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L16	205	L15 and (cable string wire)	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/12 19:32
L17	46	L15 and ((cable string wire) near5 (tension force))	US-PGPUB; USPAT; USOCR	OR	ON	2010/09/12 19:32
L18	1	((cable wire string) with haptic) and (dc adj motor) and (motor with (brak\$3 lock\$3) with (shutdown shutoff powerdown poweroff ((shut\$4 power\$4 turn\$4 remov\$3) near2 (off down current voltage))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L19	60	((cable wir\$3 string rop \$3) with haptic) and (motor with (brak\$3 lock \$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L20	44	((cable wir\$3 string rop \$3) with haptic) and (motor with (brak\$3 lock \$3) with (power\$4 us \$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L21	3	((cable wir\$3 string rop \$3) with haptic) and ((lock\$3 prevent\$3 stop \$4 brak\$4) with (spool pulley) with (off inactiv\$3 ((shut\$4 power\$3 turn \$3) near2 (off down remov\$3))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L22	7079	((lock\$3 prevent\$3 stop \$4 brak\$4) with (spool pulley) with (off inactiv\$3 ((shut\$4 power\$3 turn \$3) near2 (off down remov\$3))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32

L23	10	haptic and ((lock\$3 prevent\$3 stop\$4 brak \$4) with (spool pulley) with (off inactiv\$3 (shut \$4 power\$3 turn\$3) near2 (off down remov \$3))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L24	330	((lock\$3 prevent\$3 stop \$4 brak\$4) near5 (spool pulley)) near10 ((shut\$4 power\$3 turn\$3) near2 (off down remov\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L25	2	L24 and (haptic (force adj feedback))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L26	2	("20090308676").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/09/12 19:32
L27	0	(lock\$3 near5 (spool pulley)) near10 (prevent \$3 maintain\$3) near10 (wear tear damage) near10 (inactive ("not" near2 us\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L28	0	(lock\$3 near5 (spool pulley)) near10 (prevent \$3 maintain\$3) near10 (wear\$3 tear\$3 damag \$3) near10 (inactive ("not" near2 us\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L29	0	(lock\$3 near5 (spool pulley)) with (prevent\$3 maintain\$3) with (wear \$3 tear\$3 damag\$3) with (inactive ("not" near2 us \$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L30	3	(lock\$3 near5 (spool pulley)) same (prevent\$3 maintain\$3) same (wear \$3 tear\$3 damag\$3) same (inactive ("not" near2 us\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32

L31	302	brak\$3 with lock\$3 with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) with (motor cable pulley)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L32	0	brak\$3 with lock\$3 with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) with (motor cable pulley) with (wear\$3 tear\$3 maintenance)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L33	18	((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off)))) with (motor cable pulley) with (wear\$3 tear\$3 maintenance)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L34	202	((haptic force) near2 feedback) and ((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L35	206	((haptic force) near2 feedback) and ((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L36	31	(damag\$3 preserv\$3 maintain\$3 maintenance wear\$3 tear\$3 safe\$3) same ((pulley spool) near10 (brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L37	0	((power-off adj type) near5 motor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32

L38	3	((haptic force) near2 feedback) and (((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off)))) with (pulley spool))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L39	30	((haptic force) near2 feedback) and ((brak\$3 lock\$3) near10 (position location coordinate) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L40	40	((haptic force) near2 feedback) and ((brak\$3 lock\$3) with (position location coordinate) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L41	42	((haptic force near2 feedback)) and ((brak\$3 lock\$3) with (position location coordinate) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L42	1	("4990815").pn. and ((position near5 lock\$3) isolat\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L43	59	(haptic (force near2 feedback)) and (((brak\$3 lock\$3 maintain\$3 keep \$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L44	24	L43 not L41	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32



L45	60	("345"/\$).cds. and (((brak\$3 lock\$3 maintain\$3 keep\$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L46	415	(surgery medical surgical) and (((brak\$3 lock\$3 maintain\$3 keep\$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L47	2	(surgery medical surgical) and (((brak\$3 lock\$3 maintain\$3 keep\$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off)))) with calibrat \$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L48	75	(surgery medical surgical) and (((brak\$3 lock\$3 maintain\$3 keep\$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off)))) and calibrat \$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L49	0	("20030097060").pn. and motor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L50	4486	((brak\$3 lock\$3) near10 (position location coordinate) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32

L51	433005	((("318" or ("345" or ("463" or ("600" or ("700" or ("703"))).CLAS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/09/12 19:32
L52	7	spidar and haptic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L53	533	L51 and (((brak\$3 lock\$3 maintain\$3 keep\$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L54	315	L51 and (((brak\$3 lock\$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L55	4	L51 and (((brak\$3 lock\$3) near5 (pulley spool)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L56	8	L51 and (((brak\$3 lock\$3 stop\$4 prevent\$3) near5 (pulley spool)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L57	581	L51 and (((brak\$3 lock\$3 stop\$4 prevent\$3) near5 (location position)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32

L58	1	L51 and haptic and (((brak\$3 lock\$3 stop\$4 prevent\$3) near5 (location position)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L59	2	haptic and ((lock\$3 near5 (location position coordinate)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L60	2	haptic and ((lock\$3 near5 (location position coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L61	2	haptic and ((lock\$3 near10 (location position coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L62	1382	input and ((lock\$3 near10 (location position coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L63	9	((brak\$3 with lock\$3 with (location position coordinate) with (spool pulley) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L64	7	((brak\$3 with lock\$3 with motor with (spool pulley) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32

L65	28	((brak\$3 with (prevent\$3 stop\$4 lock\$3) with motor with (spool pulley) with (shutdown powerdown turnoff ((shut \$4 power\$3 turn\$3) near2 (remov\$3 down off))))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L66	1	("20050024331").pn. and (remote near2 tool)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L67	2	("6104380").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/09/12 19:32
L68	1	("20050024331").pn. and (chang\$3 near5 diameter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L69	2	("5440476").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/09/12 19:32
L70	0	("5440476").pn. and pulley and spoo	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
L71	1	("5440476").pn. and pulley and spool	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/09/12 19:32
S1	14	brak\$3 with lock\$3 with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) with (cable pulley)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 13:26

S2	1	("345"/\$).ccls. and (brak\$3 same lock\$3 same (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) same (cable pulley motor))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 13:28
S3	1	(haptic) and (brak\$3 same lock\$3 same (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) same (cable pulley motor))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 13:29
S4	36	(haptic) and ((brak\$3 lock\$3) same (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) same (cable pulley motor))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/25 13:29
S5	2	spidar and pulley and motor and enocd\$3 and (cable tension)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 14:06
S6	8	("7404716").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/26 16:49
S7	917	(dc adj motor) and (motor with (brak\$3 lock\$3) with (shutdown shutoff powerdown poweroff ((shut\$4 power\$4 turn\$4 remov\$3) near2 (off down current voltage))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 17:03
S8	297	("20010002126"   "20020030663"   "20020033795"   "20020054060"   "20020072814"   "20020097223"   "20020109668"   "20020128048"   "20020142701"   "20020177471"   "20030025679"   "20030030619"   "20030038776"   "20040233161"	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/26 17:04

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S9	205	S8 and (cable string wire)	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/26 17:09
S10	46	S8 and ((cable string wire) near5 (tension force))	US-PGPUB; USPAT; USOCR	OR	ON	2010/03/26 17:09
S11	1	((cable wire string) with haptic) and (dc adj motor) and (motor with (brak\$3 lock\$3) with (shutdown shutoff powerdown poweroff ((shut\$4 power\$4 turn\$4 remov\$3) near2 (off down current voltage))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 17:19
S12	55	((cable wir\$3 string rop \$3) with haptic) and (motor with (brak\$3 lock \$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 17:21
S13	40	((cable wir\$3 string rop \$3) with haptic) and (motor with (brak\$3 lock \$3) with (power\$4 us \$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 17:40



S14	1	((cable wir\$3 string rop \$3) with haptic) and ((lock\$3 prevent\$3 stop \$4 brak\$4) with (spool pulley) with (off inactiv\$3 ((shut\$4 power\$3 turn \$3) near2 (off down remov\$3))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 17:44
S15	6973	((lock\$3 prevent\$3 stop \$4 brak\$4) with (spool pulley) with (off inactiv\$3 ((shut\$4 power\$3 turn \$3) near2 (off down remov\$3))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 17:45
S16	8	haptic and ((lock\$3 prevent\$3 stop\$4 brak \$4) with (spool pulley) with (off inactiv\$3 ((shut \$4 power\$3 turn\$3) near2 (off down remov \$3))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 17:47
S17	323	((lock\$3 prevent\$3 stop \$4 brak\$4) near5 (spool pulley)) near10 ((shut\$4 power\$3 turn\$3) near2 (off down remov\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 17:50
S18	0	S17 and (haptic (force adj feedback))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 18:00
S19	2	("20090308676").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/26 18:07
S20	0	(lock\$3 near5 (spool pulley)) near10 (prevent \$3 maintain\$3) near10 (wear tear damage) near10 (inactive ("not" near2 us\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 18:12
S21	0	(lock\$3 near5 (spool pulley)) near10 (prevent \$3 maintain\$3) near10 (wear\$3 tear\$3 damag \$3) near10 (inactive ("not" near2 us\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 18:12

S22	0	((lock\$3 near5 (spool pulley)) with (prevent\$3 maintain\$3) with (wear \$3 tear\$3 damag\$3) with (inactive ("not" near2 us \$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 18:15
S23	3	((lock\$3 near5 (spool pulley)) same (prevent\$3 maintain\$3) same (wear \$3 tear\$3 damag\$3) same (inactive ("not" near2 us\$3)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/26 18:16
S24	291	brak\$3 with lock\$3 with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) with (motor cable pulley)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 11:19
S25	0	brak\$3 with lock\$3 with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))) with (motor cable pulley) with (wear\$3 tear\$3 maintenance)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 11:22
S26	17	((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off)))) with (motor cable pulley) with (wear\$3 tear\$3 maintenance)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 11:23
S27	193	((haptic force) near2 feedback) and ((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 11:25
S28	195	((haptic force) near2 feedback) and ((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 11:25

S29	31	((damag\$3 preserv\$3 maintain\$3 maintenance wear\$3 tear\$3 safe\$3) same ((pulley spool) near10 (brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut \$4 power\$3 turn\$3) adj (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 11:45
S30	0	((power-off adj type) near5 motor)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 11:54
S31	1	((haptic force) near2 feedback) and (((brak\$3 lock\$3) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off)))) with (pulley spool))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 11:57
S32	29	((haptic force) near2 feedback) and ((brak\$3 lock\$3) near10 (position location coordinate) near10 (shutdown powerdown turnoff ((shut \$4 power\$3 turn\$3) adj (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 11:58
S33	39	((haptic force) near2 feedback) and ((brak\$3 lock\$3) with (position location coordinate) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:01
S34	41	((haptic force near2 feedback) and ((brak\$3 lock\$3) with (position location coordinate) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:01
S35	1	("4990815").pn. and ((position near5 lock\$3) isolat\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:07

S36	58	((haptic (force near2 feedback)) and (((brak\$3 lock\$3 maintain\$3 keep \$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:21
S37	24	S36 not S34	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:21
S38	58	("345"/\$).cds. and (((brak\$3 lock\$3 maintain \$3 keep\$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:26
S39	396	(surgery medical surgical) and (((brak\$3 lock\$3 maintain\$3 keep \$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:28
S40	2	(surgery medical surgical) and (((brak\$3 lock\$3 maintain\$3 keep \$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off)))) with calibrat \$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:28
S41	71	(surgery medical surgical) and (((brak\$3 lock\$3 maintain\$3 keep \$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off)))) and calibrat \$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:28

S42	0	("20030097060").pn. and motor	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:38
S43	4412	((brak\$3 lock\$3) near10 (position location coordinate) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) adj (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:40
S44	416553	((("318") or ("345") or ("463") or ("600") or ("700") or ("703")).CLAS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/27 12:42
S45	7	spidar and haptic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:43
S46	517	S44 and (((brak\$3 lock\$3 maintain\$3 keep\$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:44
S47	309	S44 and (((brak\$3 lock\$3) near10 (position location coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:44
S48	4	S44 and (((brak\$3 lock\$3) near5 (pulley spool)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:51

S49	8	S44 and (((brak\$3 lock\$3 stop\$4 prevent\$3) near5 (pulley spool)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:55
S50	567	S44 and (((brak\$3 lock\$3 stop\$4 prevent\$3) near5 (location position)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:57
S51	1	S44 and haptic and (((brak\$3 lock\$3 stop\$4 prevent\$3) near5 (location position)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 12:57
S52	2	haptic and ((lock\$3 near5 (location position coordinate)) near10 (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 13:00
S53	2	haptic and ((lock\$3 near5 (location position coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 13:01
S54	2	haptic and ((lock\$3 near10 (location position coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 13:01
S55	1350	input and ((lock\$3 near10 (location position coordinate)) with (shutdown powerdown turnoff ((shut\$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 13:01

S56	9	(brak\$3 with lock\$3 with (location position coordinate) with (spool pulley) with (shutdown powerdown turnoff ((shut \$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 13:05
S57	7	(brak\$3 with lock\$3 with motor with (spool pulley) with (shutdown powerdown turnoff ((shut \$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 13:06
S58	27	(brak\$3 with (prevent\$3 stop\$4 lock\$3) with motor with (spool pulley) with (shutdown powerdown turnoff ((shut \$4 power\$3 turn\$3) near2 (remov\$3 down off))))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 13:06
S59	1	("20050024331").pn. and (remote near2 tool)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 13:27
S60	2	("6104380").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/27 13:34
S61	1	("20050024331").pn. and (chang\$3 near5 diameter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 13:41
S62	2	("5440476").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/03/27 13:43
S63	0	("5440476").pn. and pulley and spoo	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 14:51

S64	1	("5440476").pn. and pulley and spool	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/27 14:51
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